```
File from branch A:
...
speak_like_a_pirate(arrrrgs);
explore_sea(aye, matey);
shiver(me.timbers);
...
```

```
File from branch A:

...

speak_like_a_pirate(arrrrgs);
explore_sea(aye, matey);
shiver(me.timbers);

File from branch B:

...

speak_like_a_pirate(arrrrgs);
explore_sea(me.love[0]);
shiver(me.timbers);
```

```
File from branch A:

File from branch B:

...

speak_like_a_pirate(arrrrgs); speak_like_a_pirate(arrrrgs); explore_sea(aye, matey); explore_sea(me.love[0]); shiver(me.timbers); ...
```

Correct merge depends on the version in the merge base:

```
speak_like_a_pirate(arrrrgs);
explore_sea(me.love[0]);
shiver(me.timbers);
...
```

```
File from branch A:

File from branch B:

...

speak_like_a_pirate(arrrrgs); speak_like_a_pirate(arrrrgs); explore_sea(aye, matey); explore_sea(me.love[0]); shiver(me.timbers); ...
```

Correct merge depends on the version in the merge base:

```
speak_like_a_pirate(arrrrgs);
explore_sea(aye, matey);
shiver(me.timbers);
...
```

```
File from branch A:

File from branch B:

...

speak_like_a_pirate(arrrrgs); speak_like_a_pirate(arrrrgs); explore_sea(aye, matey); explore_sea(me.love[0]); shiver(me.timbers); ...
```

Correct merge depends on the version in the merge base:

```
speak_like_a_pirate(arrrrgs);
explore_sea(plus, plus);
shiver(me.timbers);
...
```

```
File from branch A:

...

speak_like_a_pirate(arrrrgs); speak_like_a_pirate(arrrrgs);
explore_sea(aye, matey); explore_sea(me.love[0]);
shiver(me.timbers); shiver(me.timbers);
...
```

Correct merge depends on the version in the merge base:

```
speak_like_a_pirate(arrrrgs);
explore_sea(plus, plus);
shiver(me.timbers);
...
```

Shorthand:

```
path
0: sha1sum_orig
A: sha1sum_A
B: sha1sum_B
```

Rename+Modify, if rename not detected:

orig_path new_path
O: 5ca1ab1e... 00000000...
A: f005ba11... 00000000...
B: 00000000... b0a710ad...

Rename+Modify, if rename not detected:

```
orig_path new_path
O: 5ca1ab1e... 00000000...
A: f005ba11... 00000000...
B: 00000000... b0a710ad...
```

Detecting renames:

```
renames on side A: ...
```

renames on side B: orig_path \Rightarrow new_path, ...

Rename+Modify, if rename not detected:

```
orig_path new_path
O: 5ca1ab1e... 00000000...
A: f005ba11... 00000000...
B: 00000000... b0a710ad...
```

Detecting renames:

```
renames on side A: ... renames on side B: orig_path \Rightarrow new_path, ...
```

...allows us to coalesce and do three-way merge:

```
orig\_path \Rightarrow new\_path
```

- O: 5ca1ab1e...
- A: f005ba11...
- B: b0a710ad...

Rename+Modify, if rename not detected:

```
orig_path new_path
O: 5ca1ab1e... 00000000...
A: f005ba11... 00000000...
B: 00000000... b0a710ad...
```

Detecting renames:

```
renames on side A: ...
renames on side B: orig_path ⇒ new_path, ...
```

...allows us to coalesce and do three-way merge:

```
orig\_path \Rightarrow new\_path
```

O: 5ca1ab1e...

A: f005ba11...

B: b0a710ad...

Which you may be used to seeing as:

```
<<<<< HEAD
explore_sea(aye, matey);
=====
explore_sea(me.love[0]);
>>>>> OTHER_BRANCH
```

Rename+Modify, if rename not detected:

```
orig_path new_path
O: 5ca1ab1e... 00000000...
A: f005ba11... 00000000...
B: 00000000... b0a710ad...
```

Detecting renames:

```
renames on side A: ...
renames on side B: orig_path ⇒ new_path, ...
```

...allows us to coalesce and do three-way merge:

```
orig\_path \Rightarrow new\_path
```

O: 5ca1ab1e...

A: f005ba11...

B: b0a710ad...

Which you may be used to seeing as:

```
<<<<< HEAD:orig_path
explore_sea(aye, matey);
=====
explore_sea(me.love[0]);
>>>>> OTHER_BRANCH:new_path
```

Let's get a change we want to cherry-pick:

```
$ git checkout 3.13.4.3-enterprise_patching
$ git fetch origin refs/changes/30/289530/3
$ git log -1 --oneline --name-status refs/changes/30/289530
9327fd6950f QA-98552 Mark objects incoming later
Μ
        modules/.../peering/PeeringSubsetPR.java
М
        modules/.../peering/impl/PeeredLinkSetApplier.java
М
        modules/.../peering/impl/PeeredObjectApplier.java
        modules/.../peering/impl/PeeringExportPR.java
Μ
М
        modules/.../peering/impl/PeeringImports.java
        modules/.../peering/impl/PeeringPR.java
М
Α
        modules/.../peering/SubsetPeeringThreeWayTest.java
        modules/.../session/TestPeeringDBSession.java
М
```

real 0m13.878s

```
$ time git cherry-pick 9327fd
error: could not apply 9327fd6950f... QA-98552 Mark
objects incoming later
hint: after resolving the conflicts, mark the corrected
paths
hint: with 'git add <paths>' or 'git rm <paths>'
hint: and commit the result with 'git commit'
```

```
$ time git cherry-pick 9327fd
error: could not apply 9327fd6950f... QA-98552 Mark
objects incoming later
hint: after resolving the conflicts, mark the corrected
paths
hint: with 'git add <paths>' or 'git rm <paths>'
hint: and commit the result with 'git commit'
real 0m13.878s
$ git status
Changes to be committed:
 new file: modules/.../SubsetPeeringThreeWayTest.java
Unmerged paths:
 deleted by us:
                modules/.../PeeringSubsetPR.java
 deleted by us:
                modules/.../PeeredLinkSetApplier.java
 deleted by us:
                 modules/.../PeeredObjectApplier.java
 deleted by us:
                 modules/.../PeeringExportPR.java
 deleted by us:
                 modules/.../PeeringImports.java
 deleted by us:
                 modules/.../PeeringPR.java
 deleted by us:
                 modules/.../TestPeeringDBSession.java
```

```
$ time git -c merge.renameLimit=99999 cherry-pick 9327fd
error: could not apply 9327fd6950f... QA-98552 Mark
objects incoming later
hint: after resolving the conflicts, mark the corrected
paths
hint: with 'git add <paths>' or 'git rm <paths>'
hint: and commit the result with 'git commit'
real 0m13.780s
$ git status
Changes to be committed:
 new file: modules/.../SubsetPeeringThreeWayTest.java
Unmerged paths:
 deleted by us:
                modules/.../PeeringSubsetPR.java
 deleted by us:
                modules/.../PeeredLinkSetApplier.java
 deleted by us:
                 modules/.../PeeredObjectApplier.java
 deleted by us:
                 modules/.../PeeringExportPR.java
 deleted by us:
                 modules/.../PeeringImports.java
 deleted by us:
                 modules/.../PeeringPR.java
 deleted by us:
                 modules/.../TestPeeringDBSession.java
```

\$ time git cherry-pick 9327fd

real 0m13.873s

```
$ time git cherry-pick 9327fd
warning: inexact rename detection was skipped due to
too many files.
warning: you may want to set your merge.renamelimit
variable to at least 48941 and retry the command.
error: could not apply 9327fd6950f... QA-98552 Mark
objects incoming later
hint: after resolving the conflicts, mark the corrected
paths
hint: with 'git add <paths>' or 'git rm <paths>'
hint: and commit the result with 'git commit'
```

real 9m8.790s

```
$ time git -c merge.renameLimit=48941 cherry-pick 9327fd
Performing inexact rename detection: 100%
(2836767183/2836767183), done.
error: could not apply 9327fd6950f... QA-98552 Mark
objects incoming later
hint: after resolving the conflicts, mark the corrected
paths
hint: with 'git add <paths>' or 'git rm <paths>'
hint: and commit the result with 'git commit'
```

```
$ time git -c merge.renameLimit=48941 cherry-pick 9327fd
Performing inexact rename detection: 100%
(2836767183/2836767183), done.
...
real 9m8.790s
```

```
$ time git -c merge.renameLimit=48941 cherry-pick 9327fd
Performing inexact rename detection:
                                      100%
(2836767183/2836767183), done.
real 9m8.790s
$ git status
You are currently cherry-picking commit 9327fd6950f.
Changes to be committed:
 new file:
            modules/.../SubsetPeeringThreeWayTest.java
 modified:
            pg/gotham/.../PeeredObjectApplier.java
 modified: pg/gotham/.../PeeringExportPR.java
 modified:
            pg/gotham/.../PeeringPR.java
 modified:
            pg/gotham/.../TestPeeringDBSession.java
Unmerged paths:
 both modified: pg/gotham/.../PeeringSubsetPR.java
 both modified:
                pg/gotham/.../PeeredLinkSetApplier.java
 both modified: pg/gotham/.../PeeringImports.java
```

Dozens of git patches later...

```
$ time git -c merge.renameLimit=48941 cherry-pick 9327fd
Performing inexact rename detection:
                                     100%
(2836767183/2836767183), done.
real 9m8.790s
$ git status
You are currently cherry-picking commit 9327fd6950f.
Changes to be committed:
 modified: pg/gotham/.../PeeredObjectApplier.java
 modified:
           pg/gotham/.../PeeringExportPR.java
 modified: pg/gotham/.../PeeringPR.java
 new file: pg/gotham/.../SubsetPeeringThreeWayTest.java
 modified:
            pg/gotham/.../TestPeeringDBSession.java
Unmerged paths:
 both modified: pg/gotham/.../PeeringSubsetPR.java
 both modified:
                pg/gotham/.../PeeredLinkSetApplier.java
 both modified:
                pg/gotham/.../PeeringImports.java
```

Three series of git patches later...

```
$ time git cherry-pick 9327fd
real 0m15.873s
$ git status
You are currently cherry-picking commit 9327fd6950f.
Changes to be committed:
 modified: pg/gotham/.../PeeredObjectApplier.java
 modified: pg/gotham/.../PeeringExportPR.java
 modified: pg/gotham/.../PeeringPR.java
 new file:
            pg/gotham/.../SubsetPeeringThreeWayTest.java
 modified:
            pg/gotham/.../TestPeeringDBSession.java
Unmerged paths:
 both modified: pg/gotham/.../PeeringSubsetPR.java
 both modified: pg/gotham/.../PeeredLinkSetApplier.java
 both modified: pg/gotham/.../PeeringImports.java
```

- https://public-inbox.org/git/20171110173956.25105-1newren@gmail.com/
- https://public-inbox.org/git/20171110190550.27059-1newren@gmail.com/
- https://public-inbox.org/git/20171110222156.23221-1newren@gmail.com/

- https://public-inbox.org/git/20171110173956.25105-1newren@gmail.com/
- https://public-inbox.org/git/20171110190550.27059-1newren@gmail.com/
- https://public-inbox.org/git/20171110222156.23221-1newren@gmail.com/

When I told folks that "You don't need these special scripts to cherry pick things; just set merge.renameLimit to something higher," they responded that merge.renameLimit didn't work.

- https://public-inbox.org/git/20171110173956.25105-1newren@gmail.com/
- https://public-inbox.org/git/20171110190550.27059-1newren@gmail.com/
- https://public-inbox.org/git/20171110222156.23221-1newren@gmail.com/

When I told folks that "You don't need these special scripts to cherry pick things; just set merge.renameLimit to something higher," they responded that merge.renameLimit didn't work.

I didn't believe them.

- https://public-inbox.org/git/20171110173956.25105-1-newren@gmail.com/
- https://public-inbox.org/git/20171110190550.27059-1newren@gmail.com/
- https://public-inbox.org/git/20171110222156.23221-1newren@gmail.com/

When I told folks that "You don't need these special scripts to cherry pick things; just set merge.renameLimit to something higher," they responded that merge.renameLimit didn't work.

I didn't believe them.

These git patches represent my attempt to continue to not believe them. :-)